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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | Application N | lo. | Applicant(s) | |
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| Office Action Summary | | 10/797,673 | SUKHADIA ET AL. | | • |
| | | Examiner | | Art Unit | |
| | | Rip A. Lee | | 1796 | |
| Period fo | The MAILING DATE of this communication ap | ppears on the co | ver sheet with the c | orrespondence add | dress |
| A SHO WHIC - Exter after - If NO - Failui Any r | ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING I asions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by statu- eply received by the Office later than three months after the mail and patent term adjustment. See 37 CFR 1.704(b). | DATE OF THIS 1.136(a). In no event, he ad will apply and will exp tute, cause the application | COMMUNICATION lowever, may a reply be tim bire SIX (6) MONTHS from to to become ABANDONED | I. ely filed the mailing date of this co O (35 U.S.C. § 133) | , |
| Status | | | | | |
| 2a)⊠ | Responsive to communication(s) filed on 12. This action is FINAL . 2b) The Since this application is in condition for allow closed in accordance with the practice under | nis action is non- vance except for | formal matters, pro | | merits is |
| Dispositi | on of Claims | | | | |
| 5)□ 6)⊠ 7)⊠ | Claim(s) <u>1-15,18-33,36-43 and 46-48</u> is/are page 4a) Of the above claim(s) is/are withdrawith Claim(s) is/are allowed. Claim(s) <u>1-15,18-33,36-40,42,43 and 46-48</u> is/are of Claim(s) <u>1, 20, 38, 40, 41, and 46-48</u> is/are of Claim(s) are subject to restriction and/ | rawn from considustrians is/are rejected. Objected to. | leration. | | |
| Applicati | on Papers | | | | |
| 10) | The specification is objected to by the Examination The drawing(s) filed on is/are: a) acceptable and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the Example. | ccepted or b) (coepted or b) (coepted or b) (coepted or b) (coep | eld in abeyance. See the drawing(s) is obj | 37 CFR 1.85(a). ected to. See 37 CF | * * |
| Priority u | nder 35 U.S.C. § 119 | | | | |
| 12) <u></u> a)[| Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea ee the attached detailed Office action for a lis | nts have been re nts have been re iority documents au (PCT Rule 17 | eceived. eceived in Application have been receivee 7.2(a)). | on No d in this National \$ | Stage |
| Attachment | · (s) | | | | |
| 2) D Notice 3) D Inform | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) 'No(s)/Mail Date | 4) [5) [6) [| Interview Summary (Paper No(s)/Mail Dat Notice of Informal Pa Other: | te | |

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DETAILED ACTION

This office action follows a response filed on July 12, 2007. Independent claims 1, 20,

38, and 46-48 were amended. Claims 1-15, 18-33, 36-43, and 46-48 remain pending.

Claim Objections

1. Claims 1, 20, 38, and 46-48 are objected to because of the following informalities: The

claims are written imprecisely since any solid oxide support containing titania can not be

substantially free of titanium. Appropriate corrections are required.

2. Claims 40 and 41 are objected to under 37 CFR 1.75(c), as being of improper dependent

form for failing to further limit the subject matter of a previous claim. Applicant is required to

cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or

rewrite the claim(s) in independent form.

Claim 40 contains compounds that have been excluded in independent claim 38. In claim

40, all compounds on page 18 of the response, except for octylphenylsilylbis(1-indenyl)hafnium

dichloride appear in claim 38. Continuing on page 19, the compounds 1,2-ethanediylbis(9-

fluorenyl)zirconium dichloride, methyloctylsilylbis(9-fluorenyl)zirconium dichloride, rac-

ethylenebis(2-methyl-1-indenyl)zirconium dichloride, and rac-dimethylsilylbis(tetrahydro-

indeyl)zirconium dichloride appear to be repetitive.

Both compounds recited in claim 41 have been excluded in claim 38.

Claim Rejections - 35 USC § 102/35 USC § 103

3. The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office action.

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4. Claims 1-15, 18-33, 36, 37, 46, and 47 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over McDaniel *et al.* (U.S. 6,548,442).

McDaniel et al. teaches a catalyst composition comprising the contact product of at least one organometal compound, at least one organoaluminum compound, and at least one treated solid oxide, wherein said treated solid oxide comprises at least one halogen, zirconium, and a solid oxide (claim 1). The solid oxide is alumina (claim 2). Specific examples of treated solid oxide are chlorided zirconium-containing alumina and fluorided zirconium-containing alumina (examples 1C and 3C). Note that the support is substantially free of titanium, molybdenum, and tungsten.

Useful metallocenes for making inventive catalysts are the bridged metallocenes depicted in columns 5-10. One specific example of metallocene, nonyl(phenyl)silylbisindenyl hafnium dichloride, is depicted in col. 7, line 1. Other bridged metallocenes that are useful for practicing the invention include isopropylidene(cyclopentadienyl)(fluorenyl)zirconium dichloride and diphenylsilyl(cyclopentadienyl)(fluorenyl)zirconium dichloride. Organoaluminum compounds are described in full in column 10. Catalyst components are contacted in isobutene as the inert diluent, as shown in the experimental section. Aluminoxanes and ionic activators such as fluorinated organoborates may be used in certain conditions (col. 14, lines 41-44).

McDaniel *et al.* teaches that catalysts are useful in preparing copolymers of ethylene and at least one monomer selected from the group consisting of propylene, 1-butene, 1-hexene, *etc.* (col. 15, lines 6-10). In this connection, it noted that catalysts are shown in the examples to be useful in preparing ethylene-hexene copolymers. Thus, the catalyst and process of use for preparing copolymer is taught fully by the prior art.

McDaniel et al. is deficient in characterizing the resulting polymer as recited in the instant claims. However, in view of the fact that the process of preparing polymer is substantially the same as that recited in the instant claims, a reasonable basis exists to believe that the resulting polymer exhibits substantially the same properties and characteristics. (It is noted that the claims are drawn to a method of polymerizing olefins, rather than a process for making film. It is the examiner's position that the film properties recited in the instant claims are

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conditional properties, rather than inherent properties, because a variety of factors such as stretching methods, nucleation, *inter alia*, directly affect film clarity and film haze). Since the PTO can not perform experiments, the burden of proof is shifted to the Applicants to establish an unobviousness difference. *In re Fitzgerald*, 619 F.2d. 67, 205 USPQ 594 (CCPA 1980). See MPEP § 2112-2112.02. *In re Best*, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977).

5. Claims 38-40, 42, 43 and 48 are rejected under 35 U.S.C. 102(e) as anticipated by McDaniel *et al.* (U.S. 6,548,442).

McDaniel et al. teaches a catalyst composition comprising the contact product of at least one organometal compound, at least one organoaluminum compound, and at least one treated solid oxide, wherein said treated solid oxide comprises at least one halogen, zirconium, and a solid oxide (claim 1). The solid oxide is alumina (claim 2). Specific examples of treated solid oxide are chlorided zirconium-containing alumina and fluorided zirconium-containing alumina (examples 1C and 3C). One specific example of metallocene, nonyl(phenyl)silylbisindenyl hafnium dichloride, is depicted in col. 7, line 1. Other bridged metallocenes that are useful for practicing the invention include isopropylidene(cyclopentadienyl)(fluorenyl)zirconium dichloride and diphenylsilyl(cyclopentadienyl)(fluorenyl)zirconium dichloride.1 Organoaluminum compounds are described in full in column 10. As such, the subject matter of the instant claims is fully anticipated by McDaniel et al.

6. Claims 1-15, 19-33, 37, 46, and 47 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hawley *et al.* (U.S. 6,667,274).

Hawley *et al.* teaches a catalyst composition comprising the contact product of at least one organometal compound, at least one organoaluminum compound, and at least one treated solid oxide, wherein said treated solid oxide comprises at least one halogen, zirconium, and a solid oxide (claim 1). Solid oxide supports are alumina, silica-zirconia, and silica-zirconia (col.

¹ McDaniel *et al.* (col. 4, lines 40-45) teaches that known metallocenes are used to make inventive catalysts such as those shown in Geerts (U.S. 5,480,848; col. 7, line 2) and Palackal *et al.* (U.S. 5,401,817; claim 9), the entire disclosure of which is incorporated by reference.

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4, lines 30 and 33) that have been treated with sulfate, fluoride, chloride, or bromide (col. 4, lines 41-45) with chlorided alumina and fluorided alumina being especially useful (Table II). Note that supports are substantially free of titanium, molybdenum, and tungsten.

Useful metallocenes for making inventive catalysts are the bridged metallocenes depicted in columns 9-12. One specific example of metallocene, octyl(phenyl)silylbisindenyl hafnium dichloride, is depicted in col. 10, line 15. Other bridged metallocenes that are useful for practicing the invention include isopropylidene(cyclopentadienyl)(fluorenyl)zirconium dichloride and diphenylsilyl (cyclopentadienyl)(fluorenyl)zirconium dichloride.² Organoaluminum compounds are described in full in column 12. Aluminoxanes and ionic activators such as fluorinated organoborates may be used in certain conditions (col. 13, lines 64-67).

Hawley *et al.* teaches that under slurry conditions, the catalyst effects polymerization of propylene with ethylene very well (col. 14, lines 39). Thus, the catalyst and process of use for preparing ethylene-propylene copolymer is taught fully by the prior art.

Hawley *et al.* is deficient in characterizing the resulting polymer as recited in the instant claims. However, in view of the fact that the process of preparing polymer is substantially the same as that recited in the instant claims, a reasonable basis exists to believe that the resulting polymer exhibits substantially the same properties and characteristics. (It is noted that the claims are drawn to a method of polymerizing olefins, rather than a process for making film. It is the examiner's position that the film properties recited in the instant claims are conditional properties, rather than inherent properties, because a variety of factors such as stretching methods, nucleation, *inter alia*, directly affect film clarity and film haze). Since the PTO can not perform experiments, the burden of proof is shifted to the Applicants to establish an unobviousness difference. *In re Fitzgerald*, 619 F.2d. 67, 205 USPQ 594 (CCPA 1980). See MPEP § 2112-2112.02. *In re Best*, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977).

² Hawley et al. (col. 8, line 65 – col. 9, line 6) teaches that known metallocenes are used to make inventive catalysts such as those shown in Geerts (U.S. 5,480,848; col. 7, line 2) and Palackal et al. (U.S. 5,401,817; claim 9), the entire disclosure of which is incorporated by reference.

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7. Claims 38-40, 42, 43 and 48 are rejected under 35 U.S.C. 102(e) as being anticipated by Hawley *et al.* (U.S. 6,667,274).

Hawley et al. teaches a catalyst composition comprising the contact product of at least one organometal compound, at least one organoaluminum compound, and at least one treated solid oxide, wherein said treated solid oxide comprises at least one halogen, zirconium, and a solid oxide (claim 1). Solid oxide supports are alumina, silica-zirconia, and silica-zirconia (col. 4, lines 30 and 33) that have been treated with sulfate, fluoride, chloride, or bromide (col. 4, lines 41-45) with chlorided alumina and fluorided alumina being especially useful (Table II). Note that supports are substantially free of titanium, molybdenum, and tungsten. One specific example of metallocene, octyl(phenyl)silylbisindenyl hafnium dichloride, is depicted in col. 10. line 15. Other bridged metallocenes that are useful for practicing the invention include isopropylidene(cyclopentadienyl)(fluorenyl)zirconium dichloride and diphenylsilyl (cyclopentadienyl)(fluorenyl)zirconium dichloride.² Organoaluminum compounds are described in full in column 12. As such, the subject matter of the instant claims is fully anticipated by Hawley et al.

8. Claim 48 is rejected under 35 U.S.C. 102(b) as being anticipated by McDaniel *et al.* (U.S. 6,376,415).

McDaniel *et al.* teaches a catalyst composition comprising the contact product of at least one organometal compound, at least one organoaluminum compound, and at least one treated solid oxide, wherein said treated solid oxide comprises a halogen selected from chloride or bromide, molybdenum or tungsten, and alumina (claim 1). Note that supports are substantially free of titanium. One specific example of metallocene, nonyl(phenyl)silyl*bis*indenyl hafnium dichloride, is depicted in col. 6, line 52. Other bridged metallocenes that are useful for practicing the invention include isopropylidene(cyclopentadienyl)(fluorenyl)zirconium dichloride and diphenylsilyl (cyclopentadienyl)(fluorenyl)zirconium dichloride.³ Organoaluminum compounds are described in full in column 10. As such, the subject matter of the instant claims is fully anticipated by McDaniel *et al.*

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9. Claims 46 and 47 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over McDaniel et al. (U.S. 6,376,415).

The discussion of the disclosures of the prior art from the previous paragraph of this office action is incorporated here by reference. Inventive catalysts are useful for copolymerization of ethylene with at least one monomer selected from the group consisting of propylene, 1-butene, 1-hexene, etc. (col. 14, lines 24-28). Thus, the catalyst and process of use for preparing copolymer is taught fully by the prior art.

McDaniel *et al.* is deficient in characterizing the resulting polymer as recited in the instant claims. However, in view of the fact that the process of preparing polymer is substantially the same as that recited in the instant claims, a reasonable basis exists to believe that the resulting polymer exhibits substantially the same properties and characteristics. (It is noted that the claims are drawn to a method of polymerizing olefins, rather than a process for making film. It is the examiner's position that the film properties recited in the instant claims are conditional properties, rather than inherent properties, because a variety of factors such as stretching methods, nucleation, *inter alia*, directly affect film clarity and film haze). Since the PTO can not perform experiments, the burden of proof is shifted to the Applicants to establish an unobviousness difference. *In re Fitzgerald*, 619 F.2d. 67, 205 USPQ 594 (CCPA 1980). See MPEP § 2112-2112.02. *In re Best*, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977).

³ McDaniel *et al.* (col. 4, lines 39-45) teaches that known metallocenes are used to make inventive catalysts such as those shown in Geerts (U.S. 5,480,848; col. 7, line 2) and Palackal *et al.* (U.S. 5,401,817; claim 9), the entire disclosure of which is incorporated by reference.

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10. Claims 38-40, 42, 43 and 48 are rejected under 35 U.S.C. 102(b) as being anticipated by Collins *et al.* (U.S. 6,524,987).

Collins *et al.* teaches a catalyst composition comprising the contact product of at least one organometal compound, at least one organoaluminum compound, and at least one treated solid oxide. Solid oxide supports are alumina, zirconia, titania, and combinations such as silicazirconia (col. 6, lines 65-67 and col. 7, line 40) that have been treated with sulfate, fluoride, chloride, or bromide (col. 7, lines 46-52) with chlorided alumina and sulfated alumina being especially useful (Table 1). Note that supports are substantially free of titanium, molybdenum, and tungsten.

Specific examples of metallocene appear in column 5 (see claim 7 for nomenclature). nonyl(phenyl)silylbisindenyl hafnium dichloride, is depicted in col. 6, line 52. Other bridged metallocenes useful that are for practicing the invention include isopropylidene(cyclopentadienyl)(fluorenyl)zirconium dichloride and diphenylsilyl (cyclopentadienyl)(fluorenyl)zirconium dichloride.⁴ Organoaluminum compounds are described in full in column 6. Isobutane diluent is used for assembling catalyst components (claim 32). Aluminoxanes and ionic activators such as fluorinated organoborates may be used in certain conditions (col. 11, lines 56-60). As such, the subject matter of the instant claims is fully anticipated by Collins et al.

11. Claims 1-15, 18-33, 36, 37 46, and 47 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Collins *et al.* (U.S. 6,524,987).

The discussion of the disclosures of the prior art from the previous paragraph of this office action is incorporated here by reference. Inventive catalysts are useful for copolymerization of ethylene with at a C_3 - C_{20} α -olefin (claim 34). Thus, the catalyst and process of use for preparing copolymer is taught fully by the prior art.

⁴ Collins *et al.* (col. 4, lines 55-62) teaches that known metallocenes are used to make inventive catalysts such as those shown in Geerts (U.S. 5,480,848; col. 7, line 2) and Palackal *et al.* (U.S. 5,401,817; claim 9), the entire disclosure of which is incorporated by reference.

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Collins et al. is deficient in characterizing the resulting polymer as recited in the instant claims. However, in view of the fact that the process of preparing polymer is substantially the same as that recited in the instant claims, a reasonable basis exists to believe that the resulting polymer exhibits substantially the same properties and characteristics. (It is noted that the claims are drawn to a method of polymerizing olefins, rather than a process for making film. It is the examiner's position that the film properties recited in the instant claims are conditional properties, rather than inherent properties, because a variety of factors such as stretching methods, nucleation, inter alia, directly affect film clarity and film haze). Since the PTO can not perform experiments, the burden of proof is shifted to the Applicants to establish an unobviousness difference. In re Fitzgerald, 619 F.2d. 67, 205 USPQ 594 (CCPA 1980). See MPEP § 2112-2112.02. In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977).

12. Claims 38-40, 42, 43 and 48 are rejected under 35 U.S.C. 102(e) as being anticipated by McDaniel *et al.* (U.S. 6,750,302).

McDaniel et al. teaches a catalyst composition comprising the contact product of at least one organometal compound, at least one organoaluminum compound, and at least one treated solid oxide. Solid oxide supports are alumina or silica-titania that have been treated with fluoride and chromium (claims1 and 2, col. 10, lines 11-18). Note that supports are substantially free of titanium, molybdenum, and tungsten. One specific example of metallocene, nonyl(phenyl)silylbisindenyl hafnium dichloride, is depicted in col. 6, line 35. Other bridged metallocenes that are useful for practicing the invention include isopropylidene (cyclopentadienyl)(fluorenyl)zirconium dichloride and diphenylsilyl(cyclopentadienyl) (fluorenyl)zirconium dichloride.⁵ Organoaluminum compounds are disclosed in column 9. Catalyst components are contacted in the presence of isobutane diluent (claim 15). Aluminoxanes and ionic activators such as fluorinated organoborates may be used in certain conditions (col. 13, lines 54-58). As such, the subject matter of the instant claims is fully anticipated by McDaniel et al.

⁵ McDaniel *et al.* (col. 4, lines 25-31) teaches that known metallocenes are used to make inventive catalysts such as those shown in Geerts (U.S. 5,480,848; col. 7, line 2) and Palackal *et al.* (U.S. 5,401,817; claim 9), the entire disclosure of which is incorporated by reference.

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13. Claims 1-15, 19-33, 37, 46, and 47 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over McDaniel *et al.* (U.S. 6,750,302).

The discussion of the disclosures of the prior art from the previous paragraph of this office action is incorporated here by reference. Inventive catalysts are useful for copolymerization of ethylene with at a C_3 - C_{20} α -olefin (claim 17). Thus, the catalyst and process of use for preparing copolymer is taught fully by the prior art.

McDaniel et al. is deficient in characterizing the resulting polymer as recited in the instant claims. However, in view of the fact that the process of preparing polymer is substantially the same as that recited in the instant claims, a reasonable basis exists to believe that the resulting polymer exhibits substantially the same properties and characteristics. (It is noted that the claims are drawn to a method of polymerizing olefins, rather than a process for making film. It is the examiner's position that the film properties recited in the instant claims are conditional properties, rather than inherent properties, because a variety of factors such as stretching methods, nucleation, inter alia, directly affect film clarity and film haze). Since the PTO can not perform experiments, the burden of proof is shifted to the Applicants to establish an unobviousness difference. In re Fitzgerald, 619 F.2d. 67, 205 USPQ 594 (CCPA 1980). See MPEP § 2112-2112.02. In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977).

Response to Arguments

14. The rejections of claims set forth in paragraphs 4, 5, 8 and 11 of the previous office action have been overcome by amendment. Claim rejections set forth in paragraphs 6, 7, and 10 were not applicable, and the rejections have been withdrawn. The rejection under 35 U.S.C. 112, 1st paragraph has been withdrawn in light of claim amendments.

The obviousness type double patenting rejections over claims of copending 10/720,024 and U.S. 6,613,852, set forth in the office action dated October 3, 2005, are hereby formally withdrawn.

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Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rip A. Lee whose telephone number is (571)272-1104. The examiner can be reached on Monday through Friday from 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu S. Jagannathan, can be reached at (571)272-1119. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on the access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

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October 11, 2007

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